



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005



Job No.: CTCE/BBMP/W.No.07/PSG/CSR-10/159f/CEMENT/2016-17

Date: 03.10.2016

TEST REPORT ON CEMENT

* CUSTOMER	:	Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
*AGENCY	:	Mr. P. Shekar Gowda, #152, 2 nd Block, 3 rd Stage, SG Halli, BS Nagar, Bangalore – 79.
*NAME OF THE WORK	:	Providing concrete roads in Amruthahalli S.C Colony 8 th and 9 th Cross in Ward No.07, Byatarayanapura, BBMP, Bangalore.
*REFERENCE	:	AEE(KSD)/PR/2016-17 Dated: 01.10.2016
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	01.10.2016
PERIOD OF TESTING	:	01.10.2016 to 03.10.2016



The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	475 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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VISHWANATH C.
Quality Manager

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Job No.: CTCE/BBMP/W.No.07/PSG/CSR-10/159f/SAND-Gradation/2016-17

: 03.10.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* **Customer** : Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

* **Agency** : Mr. P. Shekar Gowda,
#152, 2nd Block, 3rd Stage, SG Halli, BS Nagar, Bangalore – 79.

* **Name of Work** : Providing concrete roads in Amruthahalli S.C Colony 8th and 9th Cross in
Ward No.07, Byatarayanapura, BBMP, Bangalore.

Reference : AEE(KSD)/PR/2016-17 Dated: 01.10.2016

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 01.10.2016

Date of Testing : 03.10.2016



Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	96.10	90-100	90-100	90-100	95-100
2.36	78.10	60-95	75-100	85-100	95-100
1.18	56.10	30-70	55-90	75-100	90-100
600 Micron	28.10	15-34	35-59	60-79	80-100
300 Micron	16.10	5-20	8-30	12-40	15-50
150 Micron	5.60	0-10	0-10	0-10	0-15

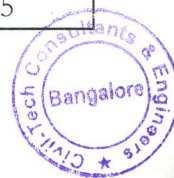
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Remarks : This sample is under Zone-I specific limits.

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VISHWANATH C.
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Job No.: CTCE/BBMP/W.No.07/PSG/CSR-10/159f/AGG/GR/2016-17

: 03.10.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* Customer : Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

* Agency : Mr. P. Shekar Gowda,
#152, 2nd Block, 3rd Stage, SG Halli, BS Nagar, Bangalore – 79.

* Name of Work : Providing concrete roads in Amruthahalli S.C Colony 8th and 9th Cross in
Ward No.07, Byatarayanapura, BBMP, Bangalore.

Reference : AEE(KSD)/PR/2016-17 Dated: 01.10.2016

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm)

Sample Received on : 01.10.2016

Date of Testing : 03.10.2016



Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.00	95-100	85-100
20	37.00	30-70	0-20
10	17.00	10-35	0-5
4.75	2.00	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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M. L. N. D.
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Job No.: CTCE/BBMP/W.No.07/PSG/STEEL/2016-17

13.10.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer : Asst. Executive Engineer, Kodigehalli Sub Division,
BBMP, Bangalore.

Agency : Mr. P. Shekar Gowda,
#152, 2nd Block, 3rd Stage, SG Halli, BS Nagar,
Bangalore – 79.

Name of the Work : Providing concrete roads in Amruthahalli S.C Colony 8th
and 9th Cross in Ward No.07, Byatarayanapura, BBMP,
Bangalore.

Reference : AEE(KSD)/PR/2016-17 Dated: 01.10.2016

Date of Test : 13.10.2016

Technical Reference : IS: 1786-2008



Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	10	0.62	513	556	13.20	O.K	O.K



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Job No.: CTCE/BBMP/W.No.07/PSG/STEEL/2016-17

13.10.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer : Asst. Executive Engineer, Kodigehalli Sub Division,
BBMP, Bangalore.

Agency : Mr. P. Shekar Gowda,
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Name of the Work : Providing concrete roads in Amruthahalli S.C Colony 8th
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Bangalore.

Reference : AEE(KSD)/PR/2016-17 Dated: 01.10.2016

Date of Test : 13.10.2016

Technical Reference : IS: 1786-2008



Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	16	1.58	520	563	13.45	O.K	O.K

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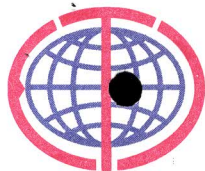
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Job No.: CTCE/BBMP/W.No.07/PSG/CSR-10/159f/CUBE/2016-17

12.11.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

- * **Customer** : Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
- * **Agency** : Mr. P. Shekar Gowda,
#152, 2nd Block, 3rd Stage, SG Halli, BS Nagar, Bangalore – 79.
- * **Name of the work** : Providing concrete roads in Amruthahalli S.C Colony 8th and 9th Cross
in Ward No.07, Byatarayanapura, BBMP, Bangalore.
- * **Reference** : AEE(KSD)/PR/2016-17 Dated: 01.10.2016
- * **Sample ID** : Culvert deck slab concrete
- Size of cubes** : 150mmx150mmx150mm
- Cross Sectional Area** : 22500 mm²
- Technical Reference** : IS: 516-1959 (Reaffirmed 2008)
- * **Grade of Concrete** : M₂₀



Compressive Strength as on : 28th day

Sample Received on : 12.11.2016

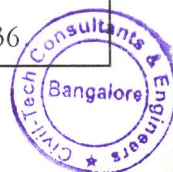
Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	15.10.2016	12.11.2016	8.190	475.5	21.13
2	15.10.2016	12.11.2016	8.275	492.3	21.88
3	15.10.2016	12.11.2016	8.315	503.2	22.36

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14.11.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

- * **Customer** : Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
- * **Agency** : Mr. P. Shekar Gowda,
#152, 2nd Block, 3rd Stage, SG Halli, BS Nagar, Bangalore – 79.
- * **Name of the work** : Providing concrete roads in Amruthahalli S.C Colony 8th and 9th Cross
in Ward No.07, Byatarayanapura, BBMP, Bangalore.
- * **Reference** : AEE(KSD)/PR/2016-17 Dated: 01.10.2016
- * **Sample ID** : Road concrete
- Size of cubes** : 150mmx150mmx150mm
- Cross Sectional Area** : 22500 mm²
- Technical Reference** : IS: 516-1959 (Reaffirmed 2008)
- * **Grade of Concrete** : M₂₀



Compressive Strength as on : 28th day

Sample Received on : 14.11.2016

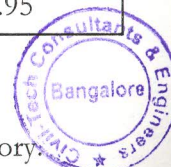
Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	17.10.2016	14.11.2016	8.215	489.3	21.75
2	17.10.2016	14.11.2016	8.325	498.6	22.16
3	17.10.2016	14.11.2016	8.410	516.3	22.95

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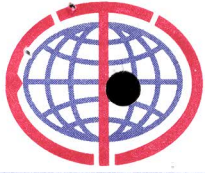


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15.11.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

- * **Customer** : Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
- * **Agency** : Mr. P. Shekar Gowda,
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- * **Reference** : AEE(KSD)/PR/2016-17 Dated: 01.10.2016
- * **Sample ID** : Road concrete
- Size of cubes** : 150mmx150mmx150mm
- Cross Sectional Area** : 22500 mm²
- Technical Reference** : IS: 516-1959 (Reaffirmed 2008)
- * **Grade of Concrete** : M₂₀



Compressive Strength as on : 28th day

Sample Received on : 15.11.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	18.10.2016	15.11.2016	8.120	485.3	21.57
2	18.10.2016	15.11.2016	8.290	493.6	21.94
3	18.10.2016	15.11.2016	8.375	516.3	22.95

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